Mi Chue Thao

University of MN – Data Analytics Bootcamp

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**PyCity Schools Written Analysis**

In this analysis, we take a close look at the performance of both the district as a whole and individual schools within it. For the district-level summary, we have examined there is a total of 15 schools in the district, educating a combined 39,170 students with a district budget of $24,649,428.00.

On average, the students in the district achieve an approximately 78.99 in math and an approximately 81.88 in reading. Nearly 75% of the district's students score 70 or higher in math, and about 85.81% score the same mark in reading. Looking at the overall performance, approximately 65.17% of students in the district pass both math and reading with scores of 70 or higher.

As for the performance of individual schools in the district, we have two types of schools in our district, Charter and District. Each school varies in terms of student population, budget, per-student budget, average math and reading scores, and the percentage of students passing math and reading. Charter schools, on average, perform better than their District counterparts in math and reading performance, as well as passing rates in both subjects. They also manage to achieve this with lower per-student budgets when compared to District schools.

Among the schools, "Cabrera High School" stands out as a standout performer with the highest overall passing rate. On the other hand, "Huang High School" demonstrates the lowest overall passing rate (including comparatively lower average scores in both math and reading).

Likewise, in the analysis of top performing and lowest performing schools, the schools with the highest overall passing percentage are Cabrera High School, Thomas High School, Griffin High School, Wilson High School, and Pena High School. These schools are all categorized as Charter schools, which generally tend to perform better academically compared to District schools.

The schools with the lowest overall passing percentage are Rodriguez High School, Figueroa High School, Huang High School, Hernandez High School, and Johnson High School. It’s observed these schools are also categorized as District schools, suggesting that the District type schools might require additional support or resources to improve student’s academic performance.

In analyzing the math & reading scores by grade, it appears in most of the schools, the higher grade levels tend to have higher average math & reading scores, suggesting an improvement in math & reading skills as students progress through school.

Through observation of the data output of spending ranges, size, and school type of each school within the district, there also seems to be an interesting observation that schools with a lower per student budget tend to have higher average math and reading scores and higher percentages of students passing both subjects, compared to schools with higher spending per student.

The data also suggests that smaller schools (with fewer than 1000 students) tend to perform better in both math and reading, as well as have higher percentages of students passing both subjects compared to larger schools. Additionally, it appears that Charter schools have higher average math and reading scores, as well as higher percentages of students passing both subjects, compared to District schools.